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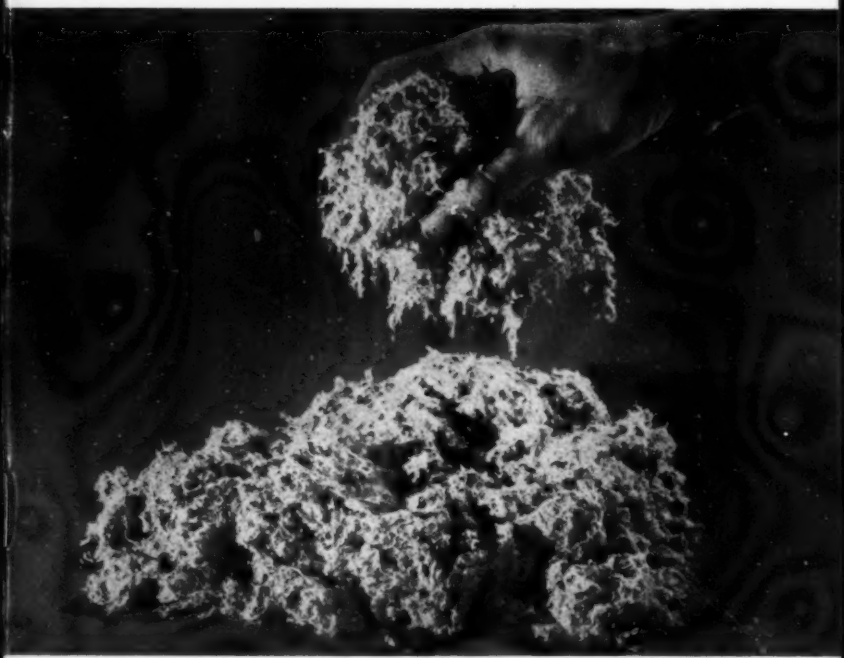
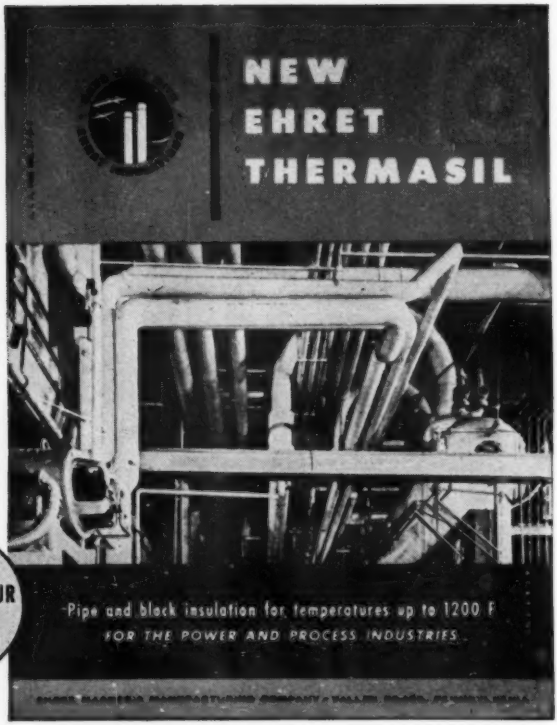


Canadian Milled Chrysotile Asbestos Fibre from the Thetford Mines District, Quebec

JUNE 1957



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INCREASED SUPPLIES OF FIBRE SPUR NEW USES FOR ASBESTOS

By Myril C. Shaw

Until recent years, the manufacturers of asbestos textiles experienced some difficulties in obtaining sufficient quantities of the necessary basic fibre, chrysotile, with which to manufacture the products of their industry. However, during the past three years, the Canadian fibre mines which serve as the major source of supply of asbestos fibre for this country have greatly expanded the production facilities of existing mines and mills, and have also opened new mines and new sources of supply.

As a result of this multi-million dollar expansion program, there is now available a fibre supply that is considerably in excess of present day demands and, indeed, would be more than adequate to meet any requirements such as were imposed during the recent periods of world unrest and war.

Asbestos textiles themselves have served man in a variety of ways for centuries and due to the unique properties exhibited by these materials they are well known to the industrialist as the principal guardians in the conservation of heat and power. Such basic characteristics as ruggedness, toughness elevated temperature stability and the ease with which they may be made to conform in applications requiring difficult or unusual fabrications, all have contributed to the wide-spread usage of these unique materials.

The history of the industrial progress of America serves also as a reflection of the history of the development and growth of the asbestos textile industry. With the inception of the steam age some 75 years ago with its requirements for gaskets, packings and high temperature insulations, asbestos textiles assumed their first major roles as industrial fabrics.

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transmission and braking units, it has been but logical to find asbestos textile materials high on the list of those essential components upon which advancements and improved operating conditions and efficiencies have been dependent.

As a result of the increase in Canadian fibre availability, the asbestos textile industry has been able to explore and exploit new fields of utilization and application for the products of the industry. One of the most important developments has been experienced in the field of plastic laminates.

Asbestos textiles lend themselves extremely well to such reprocessing due to the fineness of the basic asbestos fibres which affords a greater fibre surface area for interaction with selected impregnates than is available with an other conventional fibre. The laminates so produced exhibit such essential characteristics as high strength, chemical inertness, heat resistance and excellent electrical properties.

Many applications for asbestos reinforced plastic products have been found in the modern jet engine and rocket designs where unusually high tensile and flexural strengths at elevated temperatures are essential.

Another group of asbestos textile products which has found widespread application during recent years are the aluminum clad fabrics. Three fundamental types of cladding are now recognized—vapor coated, foil clad and an aluminum powder suspension application. Each type has been developed and is being adapted for specific applications and end uses.

The vapor coated and foil clad fabrics provide excellent heat reflection properties, while the powder suspension application, although exhibiting somewhat inferior characteristics with respect to reflectivity, provides a fabric with high resistance to oil and vapor penetration and absorbtion.

The vapor coated fabrics exhibit excellent hand and draping properties and, being light in weight, provide excellent materials for firefighting suits and protective clothing. The foil clad fabrics, although somewhat heav-

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ier and not quite as flexible as the vapor coated materials, provide the maximum in thermal reflective properties and are finding widespread applications in the construction of portable partitions, curtains and draperies.

Another product into which great quantities of asbestos are woven each year are the dryer felts used by the paper making industry. Asbestos dryer felts are by no means new products, however, the demand for more rapid and efficient conversion of pulp to paper and the desire to improve paper quality, has dictated the increased adaption of asbestos felts during recent years to satisfy these demands.

These felts are specially woven asbestos textiles which serve as the conveyor and drying medium for the paper pulp as it is processed into paper. Such belts are woven in widths up to approximately 30 feet wide and several hundred feet in length to provide a continuous conveyor as it is mounted within the paper making machines.

Asbestos dryer felts provide much greater life and serviceability than the ordinary cotton felts and in addition, being superior in absorbency and porosity, assure faster, more even drying, better finish and increased production.

While the materials here noted by no means give the complete picture of the role asbestos textiles are playing in the industrial life of our nation today, they do serve to indicate the demands that daily confront and are being met by the asbestos textile industry.

Power conservation requirements are becoming increasingly important as many of our processes and operations are being conducted at higher and higher temperatures and asbestos, being one of the few mineral fibres capable of withstanding deterioration and destruction at elevated temperatures, provides one of the principal media whereby adequate control in this area may be affected.

By MYRIL C. SHAW, Secretary, Asbestos Textile Institute.

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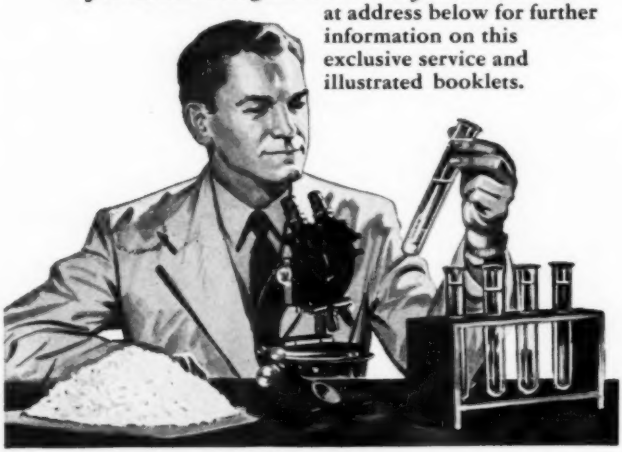

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NEW TRENDS IN THE MAKING OF ASBESTOS CEMENT PIPES AND SHEETS

By G. Stock, B.Sc., A.M.I.C.E., London
Manager of Asbestos Cement Engineering Co., Vaduz (Switzerland)

We would like to recall shortly that the making of Asbestos Cement Sheets was invented about 50 years ago and the making of Asbestos Cement Pipes about 40 years ago. In both fields there have recently been improvements.

The making of Asbestos Cement Pipes has with the years become more important than the making of Asbestos Cement Sheets. The reason for this being that Asbestos Cement Pipes have now conquered a wide market for water-carrying purposes and for housebuilding.

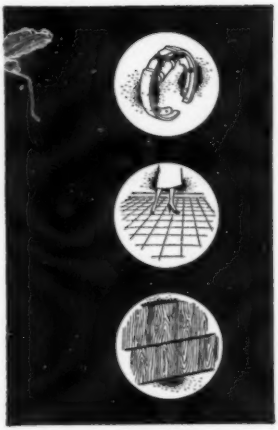
The two pipe making systems, the one for making mainly Pressure Pipes without sockets and the one for making pipes with sockets have up to now lived separate lives in separate factories, but the modern trend is to have both machines in the same factory — let us see why.

In the past for house connection pipes it was the custom that in plants making mainly pipes without sockets, a socket was cemented to the pipe after the pipe had hardened. This meant stocking the pipes until they had hardened, cementing a fresh socket on to the pipe and then machining the socket after hardening.

The house connection pipe with socket is now widely used in Europe and its big diffusion has led to the invention of machines for making socketed pipes in one operation.

These monolithic socketed pipes were well received by the market for they had the advantage that no leakage could develop at the point where in the old pipes the socket was cemented to the pipe and which had given many a time trouble.

However, they had further advantages. While the pressure pipe could only be made in large plants with very costly machines, using only asbestos of medium length and high price, the socketed pipe could be made with simple machines and could be made with asbestos of



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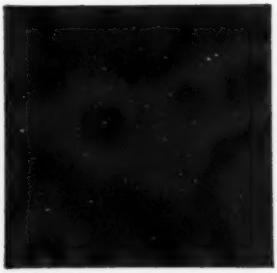

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the lowest grade which is very cheap. Furthermore, the machines were not so costly and were more adaptable as regards output.

Many factories which had then started making mainly asbestos cement pressure pipes with large plants, also installed machines for making socketed pipes, freeing at the same time the large machines from the complication of making the many diameters needed for socketed pipes.

This socketed pipe has become so essential in the building of houses in some countries in Europe that the price of the 4 inch diameter by 10 ft. socketed pipe is regularly listed in the "Chamber of Commerce Monthly Provincial Bulletin".

Thus today in these countries the price of new buildings is based on the price of cement, gravel, sand and asbestos cement pipes.

Between the two wars the standard machine for making pressure pipes was the thirteen foot (4 meter) machine. But following the trend of the steel pipemakers, also asbestos cement pipe makers sought to make longer pipes, and new plants are now equipped with machines capable of making pipes 16 feet long (5 meter machines).

These machines in turn have large outputs being capable of making many miles of pipes per day. These pipes had to be machined and tested. The output of one pipe making machine could now reach and surpass 3,000 four inch pipes per day, and automatic lathes and pipe testing presses were developed, which could quickly take charge of these operations.

With these machines the making of pipes could now take the shape of the assembly-line-work in the car making industry. Pipes would roll from one machine to the other, be quickly machined and tested and rolled into storage.

With the higher output of the pipe making machine it now paid to make the machine automatic in its operation. By this two advantages did accrue.

The pressure by which the machine was made was no longer dependent upon the whims of the operator, and the thickness of the single pipe was more uniform.

Further improvements were that whereas previously

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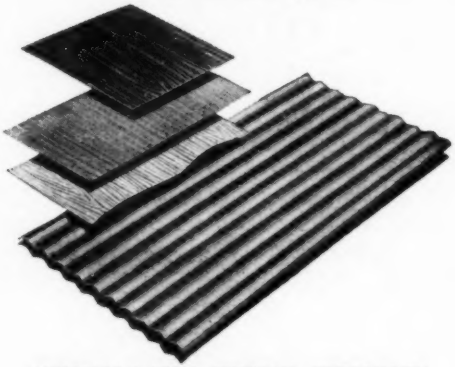

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the pipe making machine stood still while the new mandrel was fed into the machine and the finished pipe taken out, in modern plants the machine is practically never stopped, resulting in a higher output and more uniform products.

The slurry for making the pipes is now made by automatic weighing of asbestos and cement. The mixing is now first done dry and then water is added and the mixture stirred again. The old cones for separating the cement and the asbestos are now out of date and modern NO LOSS FILTERS are being installed.

At the beginning the pipes were being joined by cast-iron joints with bolts. This type of joint is disappearing fast and will soon be forgotten. Pipes are now joined by sleeves made only of asbestos cement and these are now being improved. Modern water mains have no metallic parts which can be atacked by the soil, except for the valves.

In the sheet making the trend is for an increased use of corrugated sheets. The corrugating is now done automatically by machines which trim the sheet, bring it onto the steel mould, corrugate it and staple it all without the intervention of labor.

To obviate breakage in transit many manufacturers have started successfully making sheets which contain not only asbestos fibre but also vegetable fibres. Such sheets have proved to be less liable to breakage.

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A TRIUMPH FOR TRANSITE PIPE

(Illinois Contractor completes new water line without mishap in spite of water, soil and terrain difficulties).

For supplying Lake Michigan water to communities north of Chicago, the contractor on a new line in Lake County, Illinois, faced several problems.

First, he had to work below water level and in unstable soil conditions made up of running sand and considerable peat. Then, emerging from those difficulties, he encountered wooded areas, gulleys and ravines which necessitated constant changes in elevation and direction.

The line was installed for the Lake County Public Water District which was organized in 1952 and represents all the communities in Lake County, Illinois, with the exception of Waukegan, North Chicago, Lake Forest, Highwood, Highland Park, The Great Lakes Naval Training Station at North Chicago, and the U. S. Army, Ft. Sheridan location. Representatives from Antioch, Winthrop Harbor, Zion, Gurnee, Libertyville, Mundelein, and Lake Bluff were appointed to serve as trustees. The main purpose of the Water District is to supply the Lake Michigan water for communities within Lake County.

The initial step was an exploration of the lake shore by the Ranney Methods Water Supply Company of Columbus, Ohio, to determine the location for their Ranney collector. When this was settled, the route of the line was mapped.

It runs directly west from the lake for approximately a mile where there is a quarter-mile take-off which goes south to the existing Zion water system. Then the line continues west and north for about two miles to connect with the Winthrop Harbor system.

That was the original plan but during execution of the work, an additional southward take-off was authorized to serve the Illinois Beach State Park. It is about a half mile in length and parallels the lake shore closely.

The specifications were completed in 1956 and bids were called for during the mid-summer. When they were opened, the contract was awarded to J. H. Rhodes & Sons of Winthrop Harbor, and Transite Class 150 Pressure

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Pipe was to be used. Its selection was based on the flexibility of the Ring-Tite joints, the proven performance of asbestos-cement pipe in concentrated peat installations and its first cost economy over competitive materials.

Before the work was underway, there was considerable skepticism expressed in view of the known difficulties. After all, Mr. Rhodes had been working in the area for only six years and there were those who felt that no one could appreciate the local problems in such a short time. Besides the treacherous water, soil and terrain difficulties he could run into the complications of fall and winter weather.

However, he did the alleged impossible! The job was completed on time without a single interruption or mishap.

This success, Mr. Rhodes says, is a good example of how the advantages of Transite pipe can pay dividends.

It is an asbestos-cement pipe made by Johns-Manville which comes in long 13 ft. lengths but is relatively light in weight for easy handling. Joints are made by a Ring-Tite Coupling (a sleeve of Transite and two rubber rings) which can be assembled even under adverse conditions.

Loose sand, slippery clay, mud and ice do not hinder assembly nor affect the ultimate service of the line. Where curves are encountered, the pipe, after being joined, may be readily moved into a deflected position.

Mr. Rhodes reports that workmen without previous experience quickly became proficient so they were in and out of the trench in a hurry. Excavating, pipe laying and backfilling followed on the heels of each other. And, when the work was finished, Mr. Rhodes was able to turn over a job that will enhance his reputation.

The Ring-Tite Coupling guards against leakage; the smooth, non-tuberculating interior of the pipe assures a full flow of water; the asbestos-cement composition of Transite provides a tough, strong line that is immune to electrolysis and resists corrosion.

On this Lake County job, 14 in. pipe was used for the main line that runs west. For the take-offs, 10 in. and 8 in. pipe were used. All sections of the line were tested for

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pressure and leakage as they were completed and each section was not only acceptable but exceeded even optimistic expectations and the engineer's specification requirements.

(From The Power Specialist, Spring issue 1957)

MANUAL OF APPLICATION METHODS FOR ASBESTOS-CEMENT ROOF SHINGLES

A manual of application of asbestos-cement roof shingles has been issued by the Asbestos-Cement Products Association. This is the first time in the Association's and industry's history that a manual has been published detailing methods of application for all types of asbestos-cement roofing shingles.

Highlight of the manual is a section devoted to the latest development in application . . . the new method of applying asbestos-cement roofing shingles to Low Slope Decks, the manual demonstrates the new "low slope" method for applying American Method Multiple Unit, Dutch Lap, Ranch Design, and Individual American Method Shingles to decks sloping from 2 in 12, to 5 in 12 inches.

By using this method of interlacing underlayment material — asphalt felt — between courses of shingles, a waterproof roof can be obtained even at an extremely low pitch.

The new manual is illustrated with detailed drawings. Text gives instructions covering every aspect of asbestos-cement roof shingle application, from a general discussion of the various types and designs available, through necessary accessory material, special tools, job planning, preparation and application on the many different kinds of roofs. It has an alphabetically arranged index.

The manual is available to dealers, contractors and applicators, free of charge. A copy may be obtained by writing to the Asbestos-Cement Products Association, 509 Madison Avenue, New York 22, N. Y.

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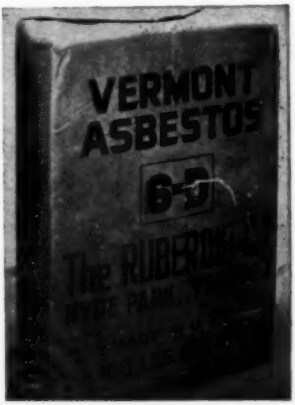

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THIS AND THAT

The 16th edition of "CONSULTING SERVICES" 1957, published by the Association of Consulting Chemists and Chemical Engineers, Inc., is off the press. Revised and streamlined, 136 pages, 6 x 9, for easy handling. $1. per copy.

A MUST for every executive's desk, it offers a wealth of information and guidance for profitable conduct of business in all branches of industry, with directions for finding the right consultant to solve problems of manufacture, process improvements, research and development, plant designs and analytical and testing work in all its modern aspects.

Demand for this book is always very heavy. Send early leterhead requests with remitance of $1.00 per copy to Association of Consulting Chemists and Chemical Engineers, Inc., Room 82, 50 East 41st St., New York 17, N. Y., giving source of reference, name of person and company and complete address including postal zone number. No discounts to trade.

Just off the press and ready for distribution to the trade is the new Pabco Heat Insulation Manual. This manual is significant to the heat insulation industry in that it is probably the most complete compendium of its kind every published.

Even though its content is devoted to Pabco heat insulations products, the authors were exceptionally thorough in their treatment of the subject. The manual is 8½ x 11" in size, conveniently plastic bound to open easily and lay flat when used. One interesting feature is the unique method of indexing that provides a quick means of locating desired information.

Those interested in this manual are invited to write: Pabco Insulations Division, Fibreboard Paper Products Corporation, 475 Brannan Street, San Francisco, California.

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CANADIAN SPECIFICATIONS

The list of Canadian Specifications has been amended as of March 29, 1957, and a copy can be obtained from the Canadian Government Specification Board,, National Research Council, Ottawa, Canada, (free).

The following is included in the list: 34-GP-7a Asbestos-Cement Products; Methods of Sampling and Testing (Amendment No. 1).

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MARKET CONDITIONS

GENERAL BUSINESS.

General business during May showed no spectacular moves either up or down. In most lines business was steady or showed a slight improvement over that of the preceding month. Steel scrap prices are rising and the steel industry looks for better business from this point to the end of the year. The cost of living rose again in April resulting in wage increases for many workers whose union contracts contain provisions for automatic "cost of living" increases. However, due to lack of overtime work the average worker's "take home" pay decreased last month. Most companies are extremely inventory-conscious and with many raw materials and manufactured goods in plentiful supply buying is on a hand-to-mouth basis and promises to remain so until present inventories are worked off or a tightening in supply forces buyers to resume the long term purchasing policies in effect over the past few years. Profit margins are very slim in many industries and corporate earnings are being squeezed even in those businesses where volume is still holding at high levels.

The concensus among economists is that 1957 will be a prosperous year for the country as a whole, but some segments of the economy are going to suffer until certain readjustments have been completed. Some of these corrections may take many months and in the meantime those adversely affected are bound to wonder how and why their businesses can be so poor during a generally prosperous period.

ASBESTOS — RAW MATERIAL.

Fibre shipments increased in April and May to a considerably higher level than during the first quarter of the year.

The seasonal pick-up due to the opening of navigation was 5% higher than last year for the two months.

The slow demand for Asbestos Cement, Roofing and Siding Products curtailed the demand for grades used in that industry to below normal.

DRYCOR FELT CO.

STAFFORDVILLE
CONNECTICUT
U. S. A.

Pioneers
and
World's Largest
Manufacturer
of
NEEDLED FELTS
for
ASBESTOS CEMENT PRODUCTS

•

ESTABLISHED STANDARD
for
ECONOMY
DRAINAGE
LONGER LIFE

•

Synthetic Fibre Content Available to Meet Your Individual Requirement

The demand for Shorts continues in good volume at a fairly level rate.

ASBESTOS — MAUFACTURED GOODS.

Absestos Textiles. The demand for asbestos textiles in the first quarter of 1957 was slightly below the same period last year. Purchases in the first quarter of 1956 was abnormally heavy, in anticipation of expected price increases. It is therefore probable that the consumption figures for the first six months of 1957 will disclose a moderate increase in demand, as compared to the like period last year.

Asbestos Brake Lining. This market is continuing at a record sales rate and should have an excellent year.

Asbestos Paper. Orders for this material are coming in about the same as last month, demand being under production capacity. Orders for *Millboard* have slowed down more than at any other time for this produet. Sales for *Saturated Paper* are still below production but improved over the first quarter of 1957.

Insulation. High Pressure. Orders continue to come in at a pace equal to the first four months of the year and there is every reason to believe that this will continue. Volume for this year may be slightly better than last year.

Insulation. Low Pressure. There is little change from last month, the situation still very competitive.

Asbestos Cement Products. This market is slower than last year due to building being off.

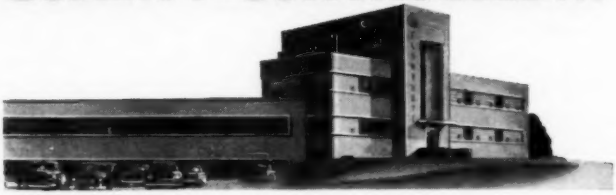
Roofing and Siding. Order placements for May were above those for April but are considered normal and seasonal.

Sales of *corrugated and flat* are improved over the first quarter of the year but production is still ahead of sales.

There are signs of a definite pick-up in sales of most types *of Asbestos-Cement Pipes* although sales are still below those of last year.

The market situation at the present time for *Asphalt*

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada

Tile and particularly for *Vinyl Asbestos Tile* continues strong. The wide use of these products in the institutional industrial and commercial construction as well as in the active modernization and repair field has more than offset the decline in residential construction and the Industry is currently running about 5% ahead of 1956 sales of approximately one billion one hundred twenty million sq. ft.

The above comments have been made by various informed executives in the Industry. All comments are welcome

CLOSE OUTS OF ASBESTOS TEXTILES WANTED

We have cash waiting for your excess or surplus lots of asbestos and fibreglass tapes and other textiles. Your offering will receive our prompt, courteous and confidential consideration. Address Box 61-H "ASBESTOS", 807 Western Saving Fund Bldg., Phila. 7, Pa.

Wanted: Product Manager

Must know mechanical packings, gaskets and allied products. Unlimited opportunities. Will have authority for product sales and product development. Send detailed resume. Our personnel are aware of this advertisement. Address Box No. 6-U-B, "ASBESTOS", 807 Western Saving Fund Bldg., Phila., 7, Pa.

ASBESTOS FIBRES

ASBESTOS WASTE

Frank G. Ruggles Co. Inc.

26 BROADWAY

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Now . . .
starting from the usual
WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

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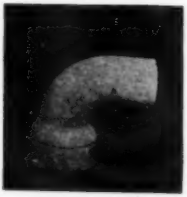
OF EVERY SHAPE
AND DIMENSION



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PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

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Cable: MINITA—MILANO **Phone: 26 67 27**

BUILDING

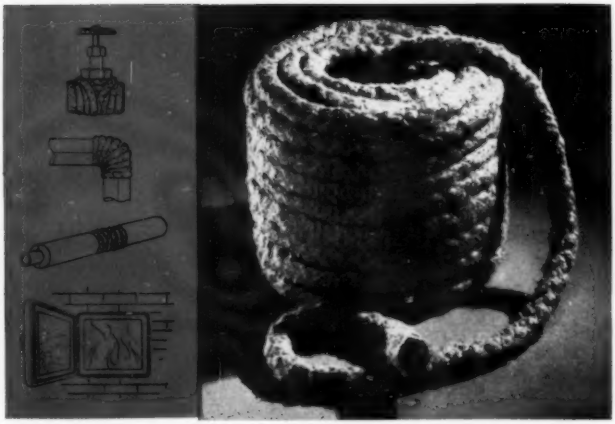
Contracts for future construction in the United States in April totalled $2,776,431,000, a decline of nine percent compared to April, 1956, according to F. W. Dodge Corporation, construction news and marketing specialists. The April decline offset a large increase in March and, as a result, the cumulative total for the first four months of 1957 amounting to $10,314,991,000 showed no change from the comparable period of 1956.

Contracts for non-residential building, which were a major source of strength during the first three months of this year, amounted to $838,065,000 in April, down 20 percent from the corresponding month a year earlier. Nearly all components of the non-residential category shared in the decline with the largest decreases taking place in the manufacturing and public building segments. For the first four months of this year, non-residential contracts totalled $3,664,712,000, about equal to the comparable period of 1956.

Contracts for residential building in April were valued at $1,231,667,000, eight percent below the year-earlier level. For the first four months of 1957, residential construction contracts amounted to $4,031,007,000, down six percent from the comparable period last year. The number of housing units represented by the April, 1957 contracts totalled 93,758, which was 14 percent below the April 1956 level. The trend toward larger and more costly home accounts for the sharper decline in unit volume than in dollar value.

The dollar value of heavy engineering contracts in April was $706,699,000, an increase of eight percent over April 1956. A substantial rise in the utilities category more than offset a small decline in contracts for public works construction. Heavy engineering contracts, from January through April, were valued at $2,619,272,000, up 12 percent over the comparable period last year.

Commenting on the figures for the first four months of this year, Thomas S. Holden, Dodge vice chairman, pointed out that "the year's record thus far seems to indicate a levelling off at the very high rates of 1956



insulate better, faster, cheaper—with

CAPOSITE asbestos rope

This is no ordinary asbestos rope. It is 100% virgin long-fiber high-temperature Amosite asbestos —lighter in weight, higher in insulating efficiency. Can be removed and re-applied repeatedly for service up to 750°F.—will insulate effectively up to 1200°F. Available in diameters from ½" to 2" in coils of 100 lineal feet. Write for Bulletin 101 and samples.

NAAC

In the United States

NORTH AMERICAN ASBESTOS CORPORATION

Board of Trade Building • Chicago 4, Illinois

In Canada

CAPE ASBESTOS (Canada) Limited

200 Bloor Street East • Toronto, Ontario • Canada

Subsidiaries of The Cape Asbestos Company Ltd. • London

Canada

(Department of Mines, Province of Quebec)

Tons 2,000 lbs

Production for March 1957 (Quebec	65,304	tons
Other Provinces	4,385	
	69,689	

Total production for March 1956 was 76,777 tons.

Africa (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for January 1957	10,773.64	tons
Valued at	£744,171	
Production for January 1956	9,911,98	tons
Valued at	£707,900	

Australian Statistics

(Published by Bureau of Mineral Resources, Department of National Development)

Tons 2,000 lbs.	Quarter Ending Sept. 30, 1956	
Production		
Chrysotile	387	tons
Crocidolite	2,432	
	2,819	
Imports		
Amosite	2,079	tons
Chrysotile	3,758	
Crocidolite	18	
Other	91	
	5,946	
Exports		
Chrysotile	20	tons
Crocidolite	2,020	
Other	19	
	2,059	

CARTERS (MERCHANTS) LIMITED

SPECIALISTS SINCE **1936** IN THE SALE OF

ASBESTOS FIBRES

ON BEHALF OF **PRODUCERS** OF ALL

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Importer of Raw Asbestos

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To enjoy the lowest net cost of Asbestos Fibre, obtain highest price for your empty burlap asbestos bags by selling them to

ACE BAG & BURLAP CO. INC.

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RHODESIAN CHRYSOTILE ASBESTOS

regular supplies of long Spinning Grades, Filter Grades, shorter Grades (comparable 3T and 3Z)

Affiliate: A. J. Hollander (Rhod) (Pvt), Ltd.

Bulawayo, Rhodesia.

IMPORTS AND EXPORTS

Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

		February 1957
From:	Canada	46,817
	Union of S. Africa	1,832
	Australia	826
	Italy	435
	Rhodesia (Ny)	569
	Other Countries	46
		50,525
	Valued at	$4,162,245

By Grades:

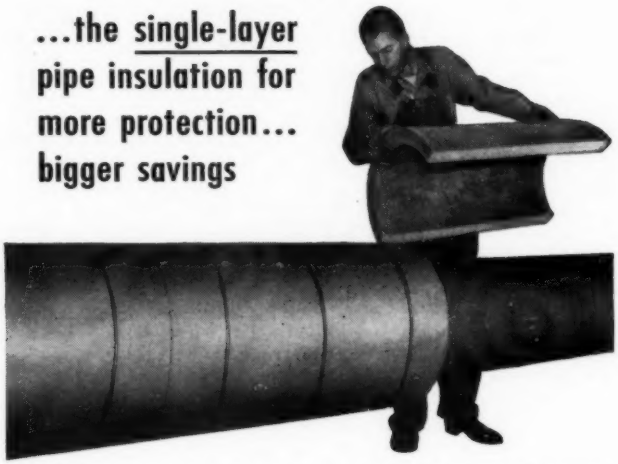
Crude No. 1, Chrysotile	9
Crude No. 2, Chrysotile	8
Crude, Other, Chrysotile, Italy	435
Crude, Other, Chrysotile, of U. of S. Africa	182
Crude, Other, Chrysotile, Rhodesia (Ny)	433
Crude, Blue, Australia	826
Crude, Blue, U. of S. Africa	1,401
Crude, Blue, . of S. Africa	1,401
Textile Fibres, Chrysotile, Canada	1,177
Textile Fibres, Chrysotile, Rhodesia (Ny)	136
Textile Fibres, Chrysotile, Other Ctys.	28
Shingle Fibres, Chrysotile, Canada	5,186
Paper Fibres, Chrysotile, Canada	37,221
Other Fibres, Chrysotile, Canada	37,221
Other Fibres, Chrysotile, Other Ctys	1
	50,525

Manufactured Asbestos Goods:

	February 1957 Quantity (Lbs.)	Value
Asbestos Yarn, United Kingdom	37,198	$ 29,046
Other Countries	2,206	4,699
Asbestos Packing & Lining	7,098	4,4169
Asbestos Shingles (Impreg.)	15,922	1,134
Asbestos Shingles (Not Impreg.) Italy	2,571,834	124,261
Other Countries	28,476	3,349
Asbestos Manufactures — Others		2,974
	2,662,734	$169,612

UNIBESTOS®

...the single-layer pipe insulation for more protection... bigger savings



Unibestos protects pipelines up to 1200° F. Single-layer construction cuts application costs...seals in more heat at the joints than double-layer insulations. Available in sectional form through 44" O.D.

UNARCO...for the best in asbestos insulation

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Cloth (plain and metallic)
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FLEXIBLES

Insutube—slip-on
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Insubestos Felt
Wovenstone®—lace-on
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PACKING

High Pressure Rod Packing
Blue Asbestos Packing—acid resistant
Square Braided Packing
Valve Stem Packings—twisted and braided
Joint Runners
High Pressure Packing—semimetallic

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Write for new 40-page catalog

UNION ASBESTOS & RUBBER COMPANY

1111 West Perry Street • Bloomington, Illinois

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	February 1957 Tons (2240 lbs.)	Value
To: Canada	24	$ 5,406
Europe	96	8,780
Mexico	40	2,680
S. America	15	2,430
Other Countries	29	6,405
	204	$25,701

Unmanufactured Asbestos:

	February 1957 Quantity	Value
Asbestos Cement & Pipe Covg ..... Lbs.	857,277	$ 82,615
Asbestos Textile & Yarn ..... Lbs.	92,653	74,321
Asbestos Packings ..... Lbs.	86,934	142,111
Asbestos Clutch Facings ..... No.	70,682	56,533
Asb. Bk. Lng. (Mld.&S. Mld.) .. Lin Ft.	163,976	60,654
Asbestos Broke Lining, Rolls .... Lin. Ft.	8,415	255,236
Asbestos Brake Lining, Rolls .... Lin. Ft.	8,415	13,390
Asbestos Brake Lining, Other ..... Lbs.	270,299	255,236
Asbestos Construction Materials .... Lbs.	2,297,991	242,758
Asbestos Manufactures — Others		46,754
....		$974,372

CLOSE-OUT BRAIDED ASBESTOS ROPE

1,500 lbs. braid over braid ¼" asbestos rope (JM566 or equal)
1,000 lbs. braid over twist ¼" asbestos rope (Ehret's No. 60)
Closing out all or part of this lot at a fraction of your usual cost. Also several off-priced lots of gasketing and electrical grades asbestos tapes. Address Box No. 612-H. "ASBESTOS", 807 Western Saving Fund Bldg., Phila. 7, Pa.

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CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

Exports From U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	Year 1956 Tons (2240 lbs,)	Value
To: Europe	1,562	$179,626
Canada	63	25,055
Central America & Mexico	248	36,109
South America	146	26,936
United Kingdom	112	26,727
Other Countries	367	49,244
	2,498	$337,696

Manufactured Asbestos Goods:

	Year 1956 Quantity	Value
Asbestos Cement & Pipe Covg Lbs.	4,524,349	$ 737,666
Asbestos Textiles & Yarn ..... Lbs	829,591	826,325
Asebestos Packings .....Lbs.	1,581,801	1,959,271
Asbestos Clutch Facings .....No.	1,160,166	910,820
Asb. Bk Lng. (Mld.&S.Mld) Lin. Ft.	1,811,015	618,925
Asbestos Brake Lining, Rolls LinFt.	354,846	312,359
Asbestos Bk. Lining, Other ....Lbs.	5,013,097	4,449,267
Asbestos Construction Materials	Lbs.38,152,9935	3,749,65
Asbestos Manufactures—others		607,017
		$14,171,309

Cyprus

(From Inspector of Mines)

	1st Quarter (ending Mar. 31, 1957) January	February	March
Rock Mined 5.181		2,456	9,449
Rock Treated		.....	.....
Fiber Produced 55		.....	.....
Fibre Exported 197		1,000	.....

JOHNS-MANVILLE CORPORATION

First Quarter Report

Consolidated earnings of Johns-Manville Corporation and subsidiary companies for the first quarter of 1957 were $2,953,554 compared with $4,110,948 for the corresponding period last year.

Sales for the first quarter of 1957 were $65,654,473, compared with $64,674,506 for the first quarter of 1956.

Earnings per share of common stock for the first quarter were 41 cents on an average of 7,149,789 shares outstanding, compared with 64 cents on an average of 6,410,001 shares for the same period last year.

ARE YOU INTERESTED

IN ASBESTOS THAT—

★ HAS A LOSS IN WEIGHT OF LESS THAN 3% ON REFLUXING FOR TWO HOURS WITH 25% w/w HYDROCHLORIC ACID

★ WITHSTANDS HIGH TEMPERATURES

★ HAS GOOD FLEXIBLE FIBRES THAT OPEN UP AND BULK WELL

★ CAN BE SUPPLIED IN FIBRE LENGTHS UP TO 1"

IF SO WE CAN SUPPLY AN ANTHOPHYLLITE WITH THESE FEATURES

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CENTRAL ASBESTOS (SA) PTY LTD. P.O. BOX 3570 JOHANNESBURG

Exports from Canada

(Published by Dominion Bureau of Statistics)

February 1957

Unmanufactured Asbestos:
Crude

	Tons (2000 lbs.)	Value
United States	17	$ 13,154
United Kingdom	....	....
South America	....	....
Central America & Mexico	....	....
European Countries	1	375
Other Countries	8	6,580
	26	$ 20,109
Milled		
United States	11,726	$2,039,229
United Kingdom	1,256	337,581
South America	309	52,336
Central America & Mexico	.....	.....
European Countries	1,323	322,172
Other Countries	2,391	463,956
	17,005	$3,215,274
Shorts		
United States	40,098	$1,956,390
United Kingdom	1,480	62,978
South America	320	26,240
Central America & Mexico	130	5,975
European Countries	230	12,652
Other Countries	123	5,945
	42,381	$2,070,180
Grand Total—Unmanufactured Asbestos:	59,412	$5,305,563

Manufactured Asbestos Goods:

Brake Lining	$ 37,933
Packing	.....
Other Materials	20,349
	$ 58,282

THORPE INSULATION COMPANY

On May 1, 1957 the Thorpe Insulation Company of Los Angeles, Calif., announced the opening of warehouse and offices at 2647 Main Street, San Diego, California, to better serve San Diego, America's "Blue Chip" Territory.

J-M Asbestos Tape

A combination of exceptional electrical and thermal insulating properties with high tensile strength makes Johns-Manville Asbestos Tape a highly useful and versatile product. It insulates wires, coils, cables and other electrical conductors; controls heat in small steam pipes and bends; serves as a conveyor belt for hot materials; and, with wire inserts, is used where high temperatures and abrasive conditions prevail or where greater physical strength is required.

Johns-Manville Asbestos Oil Burner Wicking is a special type of tape made for maximum efficiency in this service. In addition to the generally used closely woven plain tapes, Johns-Manville furnishes open mesh weaves, looped edges and other styles. For more information, ask for new brochure TX-2A. Johns-Manville, Box 14, New York 16, N. Y. In Canada, Port Credit, Ont.

Johns-Manville ASBESTOS TEXTILES

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

E. B. Poulin, Secy-Treasurer, Asbestonos Corporation, Ltd., Montreal, Canada, June 20.

Ladd L. Wilson, Vice President—Sales, Nicolet Industries, Inc., New York City, June 20.

Kenneth Gray, Director, The Cape Asbestos Co., Ltd., London, England, June 21.

Harold W. Donnelly, Vice President, Norristown Asbestos Division, Nicolet Industries, Inc., Norristown, Pa., June 22.

C. A. Schell, Vice President, Thermoid Company, Trenton, N. J., June 22.

L. M. Clarke, Jr., Philip Carey Mfg. Company, New York City, June 26.

A. F. Moore, Retired Manager, Asbestos Department, The Philip Carey Mfg. Company, Cincinnati, Ohio, June 26.

Thomas J. Walters, Asst. Manager, Industrial Products Dept., The Ruberoid Co., New York City, June 27.

H. A. King, Manager, Asbestos Fibre Sales, The Ruberoid Co., New York City, Jun 28.

L. B. Palmer-Ball, President, Palmer Asbestos Company, Louisville, Ky., June 29.

Ernest A. Beldam, Director, Beldam Asbestos Co., Ltd., Hounslow, England, June 30.

Vincent W. Hemphill, Secretary, Standard Asbestos Mfg. Company, Chicago, Ill., July 1.

S. E. Breuleux, Treasurer, The Philip Carey Mfg. Company, Cincinnati, Ohio, July 6.

Charles S. Wood, Treasurer, Chas. S. Wood & Company, Newark, N. J., July 6.

C. L. Hoshaw, Manager, Construction Division, The Philip Carey Mfg. Co., Cincinnati, Ohio, July 7.

G. K. McKenzie, Secretary, The Flintkote Company, New York City, July 7.

Capt. W. A. Janitch, R. E., Representative in Great Britain for Asbestos Corporation Ltd., London, England, July 10.

A. M. Ehret, Jr., President, Ehret Magnesia Mfg. Company, Valley Forge, Pa., July 11.

H. W. Prentis, Jr., Chairman, Armstrong Cork Company, Lancaster, Pa., July 11.

John J. Sullivan, Jr., President, Asbestos & Magnesia Materials Co., Chicago, Ill., July 13.

C.J. PETROW & CO. (PTY) LTD.

ASBESTOS

VOLKSKAS BUILDING 76 MARKET STREET
JOHANNESBURG, SOUTH AFRICA

SOUTH AFRICAN
RHODESIAN

ASBESTOS FIBRES

All Grades - All Types

P. O. Box 11000 **Cable: SOTSEBSA**

ASBESTOS TEXTILES

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

US RUBBER

Write: Asbeston® Dept., Textile Division
UNITED STATES RUBBER COMPANY
1230 Avenue of the Americas, New York 20, N.Y.

Irving McCormick, President, The McCormick Asbestos Company, Baltimore, Mr., July 13.

Carlo M. Weber, Manager, Careystone Corrugated Dept., The Philip Carey Mfg. Company, Cincinnati, Ohio, July 14.

We extend congratulations and best wishes to all these gentlemen on the occasion of their birthdays.

FIBREBOARD PAPER PRODUCTS CORP. ELECTS DIRECTORS & OFFICERS

At the annual meeting of stockholders of Fibreboard Paper Products Corporation, held recently at the company's San Francisco headquarters, the following were elected to the board of directors: *Wakefield Baker, William L. Keady, William H. Lowe, Donald Maclean, Robert W. Miller, Joseph A. Moore, Jr., Silas H. Palmer, Herman Phleger, Porter Sesnon,* and *Emmett G. Solomon*

At the organization meeting, held immediately following the gathering of stockholders, the following officers were elected: *William L. Keady,* president; *Bernard P. Altick,* vice president; *E. W. Carey,* vice president; *Edward W. Fish,* vice president; *Russell R. Galloway,* vice president; *Andrew S. Halley,* vice president; *J. F. Havard,* vice president; *O. Cort Majors,* vice president; *William K. Spence,* vice president; *William H. Young,* vice president; *J. Stewart Mitchell,* secretary; *J. Finley Thompson,* controller; *Victor H. Erickson,* treasurer; *Benjamin B. Law,* assistant secretary; *P. A. Negley,* assistant secretary; *J. F. Haynes,* assistant secretary; *M. C. Headrick,* assistant controller; and *Glen H. Moar,* assistant controller.

UNION ASBESTOS & RUBBER COMPANY
First Quarter Report

The Union Asbestos & Rubber Company showed a net profit of $160,436 for the first quarter of 1957, compared with a loss of $85,665 for the same period last year. Earnings amounted to 35 cents a share for the first quarter.

Sales for the first three months of this year were $3,350,525, as against $3,044,027 for the same period in 1956, even though sales last year included products of the company's Heating and Cooling Divisions which were liquidated in 1956.

NATIONAL GYPSUM COMPANY
Report for First Quarter

First quarter sales and earnings of National Gypsum Co. declined from the record highs of a year ago.

Sales for the period were $34,034,789, down 14% from $39,832,428 in the same period 1956. Earnings for this year's first quarter were $3,024,562 or 76c a share on 3,823,655 shares outstanding compared with first quarter 1956 earnings of $4,577,694 when there were 507,000 fewer shares outstanding.

CABLE ADDRESS METABEST

METATE ASBESTOS CORPORATION

Producers of

ARIZONA CHRYSOTILE CRUDES

and

FILTERATION FIBRE

Mines & Mill:
SAN CARLOS
INDIAN RESERVATION
GILA COUNTY, ARIZONA

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GLOBE, ARIZONA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

JOHNS-MANVILLE CORPORATION

Two new insulating board plans will join the Johns-Manville production line within the next several months, almost doubling manufacturing capacity in wood fibre products.

Located at North Bay, Ontario and Klamath Falls, Oregon, the new plants are designed to meet the growing demand for insulating and building board products, and augment present production by J-M's Jarratt, Virginia and Natchez, Miss., operations.

W. A. Young, formerly Industrial Relations Manager at the Johns-Manville, Toronto, Ontario plant, has been named Plant Manager at the new North Bay location. *W. H. Graham*, Plant Manager at Natchez, has been appointed as Plant Manager of the Klamath Falls plant. His successor as Manager of the J-M Natchez plant is *Fred A. Morgan*, formerly Superintendent of Production, Finishing, Planning and Scheduling at the same location.

THE FLINTKOTE CO.

The appointment of *John G. Flanagan* as general sales manager of the Tile-Tex Division of The Flintkote Company has recently been announced. Tile-Tex produces vinyl-asbestos and asphalt floor coverings.

Mr. Flanagan, who will make his headquarters at the division's general offices in Chicago Heights, Ill., has been associated with Tile-Tex for the past nine years. He previously served as assistant division sales manager on the West Coast and more recently as Southern division sales manager in New Orleans.

BELL'S ASBESTOS & ENGINEERING

Bell's Asbestos and Engineering (Holdings) is repeating 20 percent. with a final of 12-½ per cent for 1956 on a capital raised by a one-for-four scrip issue.

Group profits expanded from £605,851 to £685,024. Tax absorbs £354,296, leaving a net profit of £330,728, against £304,-100 for the previous year.

PHILLIPS ASBESTOS MINES

Producers of

CRUDES

and

FIBERIZED ASBESTOS

The World's Finest Fibres

DRAWER 71 GLOBE, ARIZONA

Mines and Mills in Gila Co., Arizona

DURASORB FELTS

What Do You Want in Your Felts for Asbestos-Cement?

Life ?

Drainage ?

Finish ?

Stability ?

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Try DURASORB Needled Felts, product of Albany Felt experience and facilities.

Your Albany Felt Sales Engineer wants to give you more information about these outstanding felts for asbestos-cement shingles, siding and sheets.

ALBANY
FELT COMPANY
Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P. Q.

THE RUBEROID CO.
First Quarter Report

The net income for the first three months of 1957 was slightly higher than for the same period in 1956, although net sales declined.

Net income amounted to $670,523, or 45c a share, for the three months ended March 31, 1957, compared with $660,899, or 45c a share in 1956. Net sales totaled $16,944,808 for the 1957 quarter and $18,058,268 a year earlier.

At the annual meeting all directors were re-elected. Stockholders representing more than two-thirds of the outstanding stock voted to adopt a restricted stock option plan for officers and key employees. The plan is designed to promote the success of the company by assisting it to procure and retain experienced and highly qualified key personnel.

THE RUBEROID CO.
Changes in Personnel

The Ruberoid Co. recently announced the appointment of *Charles D. Peterson*, Tulsa, Oklahoma, as assistant sales manager of the company's Baltimore, Maryland Sales District.

A building salesman since 1945, Mr. Peterson has been employed by Rounds and Porter Company, Wichita, Kansas, and Tamko Roofing Co., Joplin, Missouri. In 1948 he joined American Asphalt Roof Corporation as a sales representative in Northeastern Oklahoma, and retained that position after American Asphalt was acquired by The Ruberoid Co. in 1952.

Jack Spillman of Tulsa, Oklahoma, has been appointed as a company sales representative. Mr. Spillman will serve customers in Northeast Oklahoma, a territory formerly served by Charles D. Peterson.

THERMAL INSULATION SOCIETY
Houston Chapter

The April meeting of the Houston Chapter was held on April 30, at Ben Milan Hotel (Texas at Crawford).

The program was furnished by Philip Carey Mfg. Company and the guest speaker was Dr. Russ Heilman, Mellon Institute.

Dr. Heilman is a Senior Fellow in the nationally known Mellon Institute located at Pittsburgh, Pa. He has had a wealth of experience gained from the developing and testing of all types of insulation material. This meeting afforded a real opportunity to extend past discussions on the many phases and limitations in the field of testing insulation as made by Mellon Institute and the position that the Mellon Institute plays in industry.

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RHODESIAN CHRYSOTILE

Vanguard Asbestos Mines

Boss Asbestos Mines

Grades: Spinning, 3Z, 4H, 5R, 6D, 7M

UNION CHRYSOTILE

CAPE BLUE

Kuruman Cape Blue Asbestos

Grades: 1, 2, 3

TRANSVAAL BLUE

Baboon Asbestos Co.

Grades: TD1, TD2, TD3, TD4

AMERICAN BRAKE SHOE COMPANY
First Quarter Report

A three per cent increase in shipments and a 16% increase in net earnings for the first quarter were reported at the annual meeting of American Brake Shoe Company.

After preferred dividends, first quarter earnings equalled $1.83 per common share against $1.57 last year based on the number of shares outstanding at March 31, 1957. Actually, 16% more common shares were outstanding at the end of the 1957 quarter than one year earlier.

Sales were up from $47,170,034 in 1956 to $48,468,107 for the first quarter of 1957. Net earnings increased from $2,159,756 to $2,496,877.

J. L. FERGUSON CO.

Wayne E. Gary was named vice-president in charge of eastern sales for the J. L. Ferguson Company of Joliet, Illinois.

Mr. Gary joined Packomatic in 1952 with wide experience in plant layout, methods development and machinery installation. He became manager of the eastern sales office two years later. He is assisted in sales and engineering by *Roger Schunk* and *E. A. Darling*.

ARIZONA ASBESTOS

Mined and Milled by

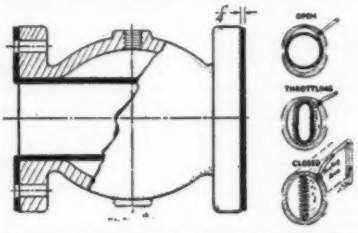
JAQUAYS MINING CORPORATION

1219 S. 19th Avenue

PHOENIX, ARIZONA

Producers of Low Iron Chrysotile Crudes and Filter Fibre

MINES AND MILL IN GILA COUNTY



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ROOFING SIDING and INSULATION

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SELL YOUR PRODUCT IN RSI

BPA audited circulation of 11,500 representing the highest buying power in the trade.

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FIBREBOARD PAPER PRODUCTS
Three Months Report

Net sales for the first quarter of 1957 were $30,173,000, an increase of 7.5% over sales of $28,053,000 in the first quarter of 1956. Net profit for the quarter amounted to $975,000 or 60c per common share as compared to $1,058,000 or 66c per common share (after adjusting for the 4% stock dividend paid in January 1957) in the like quarter of 1956.

The decline in earnings resulted principally from increased costs of materials, labor and services which have not been adequately compensated for by increased selling prices. There has also been a substantial falling off in the demand for building materials because of the sharp decline in residential construction.

CURRENT RANGE OF PRICE

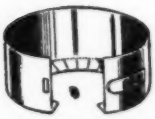
As of June 10, 1957

Arizona—	Per Ton of 2,000 lbs., f.o.b. Globe, Arizona		
No. 1 Crude (soft)	$1,500.00	to	$1,750.00
No. 2 Crude (soft)	900.00	to	1,050.00
No. 3 Crude (soft)	400.00	to	450.00
Filter Fibre (soft)	250.00	to	450.00
No. 1 Crude (semi-soft)	1,200.00	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi soft)	400.00		
Canada—	Per Ton 2000 lbs. f.o.b. Mine		
Group No. 1 (Crude No. 1)	$1,400.00	to	$1,725.00
Group No. 2 Crude No. 2; Crude Run-of-Mine and Sundry	750.00	to	1,100.00
Group No. 3 (Spining Fibre)	350.00	to	575.00
Group No. 4 (Shingle Fibre)	170.00	to	225.00
Group No. 6 (Waste, Stucco or Plaster)			82.00
Group No. 7 (Refuse or Shorts)	38.00	to	75.00
Vermont—	Per Ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.		
Group No. 3 (Spinning & Filtering)	$ 353.00	to	$ 383.00
Group No. 4 (Shingle Fibre)	172.00	to	190.00
Group No. 5 (Paper Fibre)	114.00	to	145.00
Group No. 6 (Waste, Stucco or Plaster)			82.00
Group No. 7 (Refuse or Shorts)	39.00	to	72.00

CAREY THREE MONTHS REPORT

Report for the three months ended March 31, 1957 was issued recently by The Philip Carey Mfg. Company, and gives the following figures:

Sales 1957	$14.034,395
Compared with same period in 1956	14,666.768
Net earnings after income taxes	305,803
Compared with same period in 1956	108,360
Earnings per common share	.36
Compared with same period in 1956	.13



PIPE COVERING PROTECTORS

The "Royal" All Aluminum Adjustable and Permanent Protector for Pipe Covering-ends. Easy to Apply . . . Prompt Shipment.

THE PROTECTOR CO. • GRANT WILSON, INC.

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ACE ASBESTOS MANUFACTURING CO.

Importers, Exporters, Processors of All Varieties of

RAW ASBESTOS

for Every Use

451 COMMUNIPAW AVE. JERSEY CITY, N. J.

JOHNS-MANVILLE ESTABLISHES NEW REGION

Jack W. Davis, of Colorado, has been appointed Regional Sales Manager for the Johns-Manville Pipe Division, Rocky Mountain Region.

The newly established region will encompass the states of Colorado, Idaho, Montana, New Mexico and Wyoming and will provide additional customer service in a rapidly expanding market for Transite Pipe in this area.

Prior to joining J-M in 1944 as District Engineer for the Denver District, Mr. Davis was associated with the United States Public Health Service and the Colorado State Board of Health. In 1947 he was appointed Manager for Transite Pipe at Denver.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		May 10, 1957		
	Par	Low	High	Last
Amer. Br. Shoe (Com.)	np	47	50	48½
Amer. Br. Shoe (Pfd.)	100	116¼	124	120
Armst. Ck. (Com.)	1	26⅝	29	27⅝
Armst. Ck. (Pfd.)	np	87	91	88
Asbestos Corp. (Com.)	np	30	31¾	31
Carey (Com.)	10	28¼	32½	30¼
Cassiar Asb. Corp.	np	$6.90	$7.50	$7.00
Celotex (Com.)	1	32⅝	35½	34½
Celotex (Pfc.)	20	17¾	18½	18
Certainteed (Com.)	1	9⅛	10⅛	9⅜
Fibreboard Paper Pro. (Com.)	np	27¼	30¼	29¾
Fibreboard Paper Prod. (Pfd.)	100	98½	103⅛	103
Flintkote (Com.)	5	38	41⅜	39¾
Flintkote, (Pfd.)	np	94½	95¾	94½
Johns-Manville (Com.)	5	46½	52⅛	50⅝
Natl. Gypsum (Com.)	1	37⅝	40⅛	40¼
Natl. Gypsum (Pfd.)	np	93½	97	95¼
Ray-Man (Com.)	1	56¼	57⅝	57
Ruberoid (Com.)	1	29¼	30⅜	30¼
Thermoid (Com.)	1	12¾	14⅜	13½
Thermoid (Pfd.)	50	46½	49⅞	46½
Union Asb. & Rub. (Com.)	5	7⅝	8⅜	7¾
United Asb. (Com.)	1	$6.15	$7.15	$6.80
U. S. Gypsum (Com.)	4	54¾	61¾	63¼
U. S. Gypsum (Pfd.)	100	158¼	160½	158½
U. S. Rubber (Com.)	5	44½	47⅝	45½
U. S. Rubber (Pfd.)	100	142¾	149½	144¼

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

ASBESTOS MINE IN GREECE SEEKS U. S. CAPITAL

Peter Vamvacas, a representative of the firm K. Papakonstantinou Brothers in Athens, Greece, wishes to obtain U. S. capital participation for the exploration and development of an asbestos (chrysotile) mine in Kozani, Macedonia.

The mining property reportedly covers an area of approximately 1,000 hectares. A preliminary survey is said to have proved the existence of ample deposits of asbestos of excellent quality. Terms for its development with the U. S. investor are open to negotiation.

Interested firms are invited to correspond direct with Mr. Vamvacas, c/o the firm, Maison de Representations Vamvaca, 8 Ktena Square, Athens.

FLINTKOTE REPORTS FIRST QUARTER EARNINGS

Consolidated net income of The Flintkote Company and subsidiaries for the three months ended March 31 amounted to $943,129, equal after preferred dividend requirements to 59 cents per share on an average of 1,489,449 common shares outstanding during the quarter. This compares with $778,279, or 51 cents on an average of 1,366,749 shares, in the first quarter last year.

Net sales in the initial quarter of this year rose to a new peak for the period, amounting to $24,615,916 compared with $23,308,340 in the first three months of 1956. Provisions for U.S. and Canadian income taxes totaled $746,854 for the first quarter this year compared with $785,819 a year ago.

UNITED STATES RUBBER CO.

First Quarter Report

Net sales of United States Rubber Co. for the first three months of 1957 set a new first quarter record one per cent ahead of last year, according to H. E. Humphreys, Jr., Chairman.

Net profit was $8,179,761, equivalent to $1.25 a share of common stock, compared with $9,103,348 or $1.41 a share of common stock in 1956. Profit for the first quarter was 3.5 per cent of sales compared with 4 per cent last year, and was down 10 per cent.

Net gain resulting from the sale of the company's wire and cable business is not included in consolidated net income for the quarter. Although details have not been finalized, a net gain of about $3,500,000 or 63 cents a common share, will result from this transaction.

Drastic reduction of heat loss with

PABCO PRECISION-MOLDED CALTEMP

a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

PATENTS

Abstracts of U. S. Patents on Asbestos and Asbestos Products by Oliver S. North.

Copies of patents can be obtained by sending 25 cents (in coin) to The Commissioner of Patents, Washington 25, D. C. giving the patent number, date it was issued, name of patentee and name of invention.

Apparatus For Manufacturing Tubes. No. 2,789,333. Granted on April 23, 1957 to W. Fuhrmann; assignor to Mannesmann Aktiengesellschaft, Dusseldorf, Germany. Improved apparatus for manufacturing tubes from substances which harden under certain conditions, for example asbestos-cement mixtures. Only a single appartus is required.

Method For Curing Friction Compositions. No. 2,790,206. Granted on April 30, 1957 to H. J. Cofek; assignor to Raybestos-Manhattan, Inc., Passaic, N. J. An improved method of shaping and curing automotive brake linings or other friction materials. The composition comprises asbestos fibre, dry oil, friction fillers, rubber, sulfur and a solvent. Segments are shaped in low-pressure individual clamps or molds and then passed through an oven and discharged hot in rigid, fixed shape.

Filter Demonstration Device. No. 2,790,523. Granted on April 30, 1957 to J. L. Ayer; assignor to Cambridge Filter Corp., a corporation of N. Y. Three to 15 percent of mineral fibre, for example asbestos having a diameter of less than 3 microns, can be added to a composition filter sheet material comprising also caroa, viscose and cotton fibres used in a device for demonstrating visually the efficiency of filter materials, such as cigarette smoke filters.

Method of Making Cement Bound Asbestos Paper. No. 2,791,159. Granted on May 7, 1957 to S. M. Lillis; assignor to Victor Mfg. & Gasket Co., Chicago, Ill. A low cost process for making cement bonded asbestos paper which includes the step of adding a sizing material to the paper prior to the final drying thereof. The beater slurry comprises 96 to 98 percent water and 2 to 4 percent solids, the solids consisting of from 80 to 88 percent asbestos fibre and 12 to 20 percent of high-early-strength portland cement. In a subsequent step, a solution of sodium silicate is applied to the partially dried paper.

Fibre Reinforced Tubular Article. No. 2,791,241. Granted on May 7, 1957 to D. J. Reed; assignor to A. O. Smith Corp., Milwaukee, Wisc. Method of manufacturing reinforced resin pipe having long reinforcing fibres of glass, asbestos or the like wound around the pipe in a pattern closely coinciding with the major and minor axes of stress. The winding is in two patterns, one having a helix angle of from 2 to 10 degrees and the other a helix angle of about 80 to 88 degrees. After winding, the pipe is sprayed with a resin or other bonding material.

We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

Electrical Insulating Structure and Method of Making The Same. No. 2,792,871. Granted on May 21, 1957 to P. Doigan; assignor to General Electric Co., a corporation of N. Y. A method of making asbestos insulating sheet material which is wound in the form of cylinders for use as dialectric barriers on transformer cores. An asbestos base material containing organic compounls is impregnated with a polyester resin composed of a mixture of diallyl phthalate and diethylene glycol maleate, the resin components being preferably present in approximately equal parts.

Thermal Insulating Shape and Method of Manufacture. No. 2,793,131. Granted on May 21, 1957 to M. E. Binkley; assignor to Johns-Manville Corp., New York, N. Y. A method for manufacturing high temperature insulating blocks and shapes from a relatively dilute slurry containing by percent eight of solids, 35 to 78 percent diatomaceous earth, 5 to 15 percent asbestos fibre, 2 to 7 percent hydrated lime, zero to 10 percent bentonite, and 5 to 50 percent self-setting normal magnesium carbonate.

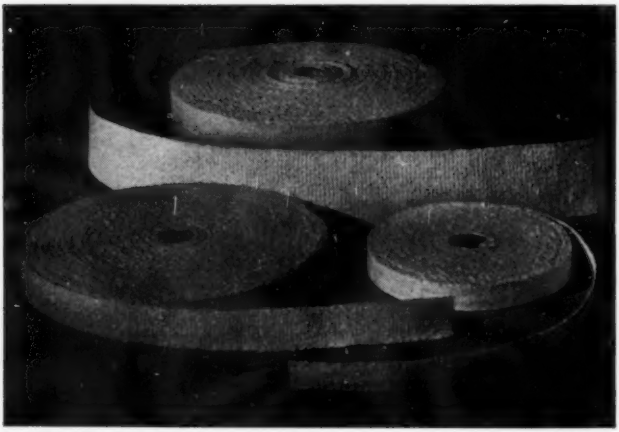
Coating Wet Metal Surfaces With Asphalt Cutback Compositions. No. 2,793,138. Granted on May 21, 1957 to C. E. Wilkinson; assignor to The Texas Co., New York, N. Y. A plastic composition suitable for application to wet metal surfaces comprises a vehicle such as air blown asphalt, a thinner, tall oil, aluminum powder, and a filler such as asbestos fibre. A slurry of the material is sprayed or brushed onto the surface and the thinner evaporated, thereby forming a permanent, adherent, protective coating on the metal surface.

INDUSTRIAL RESEARCH INSTITUTE, INC.

How a small group of young technical men effected a scientific revolution in the paint industry during the depression years, resulting in a material increase in sales and profits for their company, was revealed in detail for the first time at the annual meeting of the Industrial Research Institute, held on May 8th at Buck Hill Falls, Pa.

Speaking before many of the leading industrial research executives of the nation as the recipient of the 1957 Industrial Research Institute Medal, Dr. Clifford F. Rassweiler, Vice Chairman of the Board and Vice President for Research and Development of Johns-Manville Corporation, told how in the period from 1927 to 1937 the foundation was laid for the technical modernization of the paint industry and the conversion of most of its products from a natural oil to a synthetic resin basis.

The 1957 Medal was awarded to Dr. Rassweiler "for vision, organizing ability and stimulating leadership that guided the building of central research activities at two great corporations, and for the stimulation to industrial research in new fields that resulted from the success of these undertakings."



THERE IS A CORE OF NYLON THREAD IN EVERY STRAND OF R/M FINE TAPE

The Nylon core in both the warp and filling yarns of R/M Fine Tapes provides superior tensile for machine and hand wrapping. These tapes also have greater elasticity. This produces a snug fit around the sharp bends in motor coils. R/M Electrical Insulating Tapes have been lab tested and service proved. They are woven .010", .015", .020" and .025" thick.

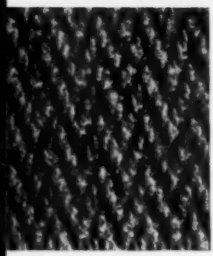
R/M

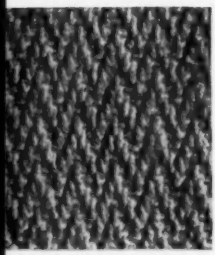
RAYBESTOS - MANHATTAN, INC.
ASBESTOS TEXTILE DIVISION • Manheim, Pa.

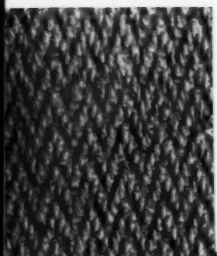
FACTORIES: Manheim, Pa.; Bridgeport, Conn.; No. Charleston, S.C.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

RAYBESTOS-MANHATTAN, INC., Asbestos Textiles • Laundry Pads and Covers • Engineered Plastics • Mechanical Packings Abrasive and Diamond Wheels • Brake Linings • Brake Blocks Clutch Facings • Industrial Rubber • Rubber Covered Equipment Sintered Metal Products • Industrial Adhesives • Bowling Balls

SOUTHERN ASBESTOS
HERRINGBONE CLOTHS







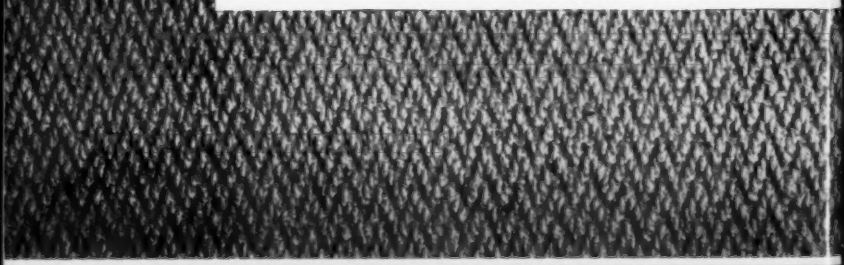
Originally designed and developed for safety clothing, Southern's Herringbone Weave Asbestos Cloth has many other uses because of its fine texture and high tensile strength.

Made to prevent excessive ravelling; constructed for maximum resistance; smooth, closely-woven texture—all result in a stronger, more durable cloth. Write for Folder No. 1005.

A COMPLETE LINE OF ASBESTOS TEXTILE PRODUCTS

THREAD • CORD • YARNS • ROPE
TUBING
CARDED FIBRE • LISTING TAPE • WICKING

Southern Asbestos, with over 25 years of specialized experience in developing and manufacturing Asbestos Textiles and Textile Products, will be glad to work with you on problems involving new uses or better uses for asbestos fibres and textiles.



SOUTHERN ASBESTOS COMPANY • CHARLOTTE 1, N. C.

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